

## Water-Data Report 2008

**404733074401801 Local number 272199- Ind**

 Piedmont and Blue Ridge crystalline-rock aquifers  
 Precambrian Erathem

Morris County, NJ

LOCATION.--Lat 40°47'33", long 74°40'18" referenced to North American Datum of 1927, Chester Township, Morris County, NJ, Hydrologic Unit 02030105.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 525 ft. Upper casing diameter 8 in; top of first opening 50 ft, bottom of last opening 525 ft.

DATUM.--Land-surface datum is 841 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--WY 2008.

REMARKS.--Middle Proterozoic Metamorphic rock.

COOPERATION.--Water quality samples were collected as part of the North New Jersey Radionuclide project, in cooperation with the New Jersey State Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 4

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Time	Sample medium and type	Turbidity white light, det ang 90+/30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, unfiltrd field, std units (00400)	Speci- fic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, 25 degC (00095)	Temper- ature, water, deg C (00020)	Temper- ature, water, deg C (00010)
Oct 01...	1215	Ground water, regular	.7	755	7.2	5.3	701	19.0	12.6	
01...	1215	QC - Ground water, replicate	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 4

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Calcium water, filtrd, mg/L (00915)	Chlor- ide, water, filtrd, mg/L (00940)	Silica, water, filtrd, mg/L as SiO <sub>2</sub> (00955)	Sulfate water, filtrd, mg/L (00945)	Ammonia water, filtrd, mg/L as N (00608)	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Nitrite water, filtrd, mg/L as N (00613)	Ortho- phosphate, water, filtrd, mg/L as P (00671)	E coli, Defined Substr. Tech., water, MPN/ 100 mL (50468)	Total coli- form, Defined Substr. Tech., water, MPN/ 100 mL (50569)	Arsen- ate, water, filtrd, μg/L (62453)	Arsenic water, filtrd, μg/L (01000)	Arsen- ite, water, filtrd, μg/L (62452)
Oct 01...	27.8	170	18.3	21.0	E.011	1.58	E.001	.008	<1	<1	E.1	.07	<.2
01...	--	--	--	--	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 4

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Barium, water, fltrd, μg/L (01005)	Iron, water, fltrd, μg/L (01046)	Mangan- ese, water, fltrd, μg/L (01056)	Stront- ium, water, fltrd, μg/L (01080)	Alpha radioac 2-sigma	Alpha radioac mdc, 72 hr,	Alpha radioac wat flt	Ra-226 2-sigma	Ra-226, water, filtrd, MDC, pCi/L (99324)	Ra-226, water, filtrd, gamma count, pCi/L (50911)	Ra-226, water, filtrd, gamma count, pCi/L (99325)	Ra-228 2-sigma	
	Th-230, pCi/L (62637)	Th-230, pCi/L (62638)	Th-230, pCi/L (62636)	Ra-224 water, filtrd, pCi/L (99324)	Ra-226 water, filtrd, gamma count, pCi/L (50837)	Ra-226, water, filtrd, gamma count, pCi/L (50840)	Ra-228 water, unfiltrd, MDC, pCi/L (99326)						
<b>Oct</b>													
01...	26.1	102	23.4	167	.34	.98	8.06	.8400	.22	.5400	.79	.48	1.200
01...	--	--	--	--	1.9	.88	8.9	.8400	.20	.5400	E.48	.40	1.200

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 4

[QC, quality control sample. Remark codes: <, less than;  
E, estimated.]

Date	Rn-222			
	Ra-228, water, unfiltrd gamma count, pCi/L (50839)	count- error, water, unfiltrd pCi/L (82302)	Rn-222, natural water, filtrd, pCi/L (82305)	Uranium water, filtrd, μg/L (22703)
<b>Oct</b>				
01...	1.71	460	16,400	.87
01...	1.52	--	--	--